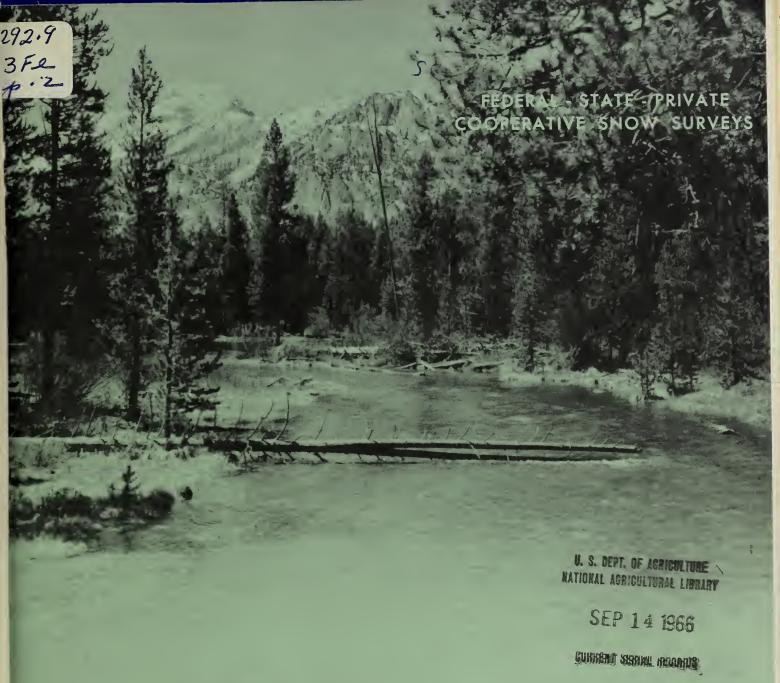
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Do not assume content reflects current scientific knowledge, policies, or practices.





WATER SUPPLY OUTLOOK

rederal - State - Private Cooperative Snow Surveys
for
WASHINGTON

UNITED STATES DEPARTMENT of AGRICULTURE...SOIL CONSERVATION SERVICE, and

DEPARTMENT of CONSERVATION STATE of WASHINGTON

Data included in this report were obtained by the agencies named above incooperation with the U.S. Forest Service, U.S. Geological Survey, National Park Service, and other Federal, State and private organizations.

JUNE 1, 1966

UNITED STATES DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE

To Recipients of Water Supply Outlook Reports:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season as they affect runoff will add to be an effective average. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1400 snow courses in Western United States and in the Columbia Basin in British Columbia. In the near future, it is anticipated that automatic snow water equivalent sensing devices along with radio telemetry will provide a continuous record of snow water equivalent at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

Listed below are water supply outlook reports based on Federal-State-Private Cooperative snow surveys. Those published by the Soil Conservation Service may be obtained from Soil Conservation Service, Room 507, Federal Building, 701 N. W. Glisan, Portland, Oregon 97209.

	PUBLISHED BY SOIL	CONSERVATION SERVICE	
REPORTS	ISSUED	LOCATION	COOPERATING WITH
RIVER BASINS			
WESTERN UNITED STATES	MONTHLY (FEBMAY)	PORTLAND, OREGON	ALL COOPERATORS
BASIC DATA SUMMARY	OCTOBER 1	PORTLAND, OREGON	ALL COOPERATORS
STATES			
ALASKA	MONTHLY (MARMAY)	PALMER, ALASKA	- ALASKA S.C.D.
AR I ZONA	SEMI-MONTHLY (JAN.15 - APR.1)	PHOENIX, ARIZONA	SALT R. VALLEY WATER USERS ASSOC ARIZ. AGR. EXP. STATION
COLORADO AND NEW MEXICO	MONTHLY (FEBMAY)	FORT COLLINS, COLORADO	- COLO. STATE UNIVERSITY COLO. STATE ENGINEER N. MEX. STATE ENGINEER
1DAH0	MONTHLY (JAN JUNE)_	BOISE, IDAHO	_ IDAHO STATE RECLAMATION ENGINEER
MONTANA	MONTHLY (JANJUNE)_	BOZEMAN, MONTANA	MONT. AGR. EXP. STATION
NEVADA	MONTHLY (JAN MAY)	RENO, NEVADA	NEVADA DEPT. OF CONSERVATION AND NATURAL RESOURCES - DIVISION OF WATER RESOURCES
OREGON	MONTHLY (JANJUNE)	PORTLAND, OREGON	OREG. STATE UNIVERSITY OREGON STATE ENGINEER
UTAH	MONTHLY (JAN. JUNE)_	. SALT LAKE CITY, UTAH	UTAH STATE ENGINEER
MASHINGTON	MONTHLY (FEB JUNE)_	SPOKANE, WASHINGTON	WN. STATE DEPT. OF CONSERVATION
NYOMING	MONTHLY (FEBJUNE)	CASPER, WYOMING	_ WYOMING STATE ENGINEER
	PUBLISHED BY	OTHER AGENCIES	
REPORTS	ISSUED		AGENCY
BRITISH COLUMBIA	MONTHLY (FEBJUNE)	WATER RESOURCE FOREST AND WATER VICTORIA, B.C.,	S SERVICE, DEPT. OF LANDS, RESOURCES, PARLIAMENT BLDG., CANADA
CALIFORNIA	MONTHLY (FEBMAY)	CALIF, DEPT. OF V SACRAMENTO, CALI	WATER RESOURCES, P.O. BOX 388, F.

FEDERAL-STATE-COOPERATIVE SNOW SURVEY AND WATER SUPPLY FORECASTS

For

WASHINGTON

Report Prepared By

Robert T. Davis, Snow Survey Supervisor

Soil Conservation Service 840 Bon Marche Building Spokane, Washington

Issued By

Orlo W. Krauter
State Conservationist
Soil Conservation Service
U. S. Department of Agriculture

Murray G. Walker, Supervisor Division of Water Resources Department of Conservation State of Washington

WATER SUPPLY OUTLOOK

State of Washington

June 1, 1966

SNOW COVER

Wherever there are past records to be used for comparison purposes, the depletion of the snowpack greatly exceeded the normal rate for the month. Some courses went from a May 1 reading of 160% of normal to a May 15 reading of only 50% or a decrease of 110%. Not all of the decreases were so dramatic but this gives some indication of the lack of water in the upper watersheds.

Very few of the snow courses in Washington are scheduled to be read on either May 15 or June 1. Only those key courses at higher elevations are measured or even have snow.

Much of the data reported in the appendix is for measurements made at non-regular times; e.g., April 10, April 20 and May 10. These measurements were made at the request of the Bureau of Reclamation for their "Cascade Atmospheric Water Resources Program" as were the establishment of the new snow courses in the headwaters of the Yakima River. This coming year these courses will be reported monthly.

SOIL MOISTURE

All of the soil moisture stations read on the first of June were reported to have soil mantles that are drying out. The top layers of the soil profile are quite dry with the middle layers drying and the lower holding about the same as last month. Again it is the lack of precipitation during the past two months which is responsible although the cool weather has slowed down both the surface evaporation and the evapotranspiration rate.

THE REAL PROPERTY.

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RESERVOIR STORAGE - 1000 Acre Feet - June

BASIN or STREAM	RESERVOIR	USABLE 1/ CAPACITY	M 1966	easured 1965	(June 1) 1965	Normal*
JIRGAN	RESERVOIR	CAPACITI	1900	1903	1903	NOTHIAL"
_		COLUME	BIA			
Spokane	Coeur d'Alene Lake	225.1	172.2	272.4	425.5	357.9
Columbia	Franklin D. Roosevelt Lake	5232.0	3843.2	3505.0	3370.0	4381.2
Columbia	Banks Lake 2/	761.8	551.9	363.6	320.0	463.3
Okanogan	Conconully Reservoir	13.0	1.5	5.3	5.1	11.8
Okanogan	Salmon Lake	10.5	8.2	9.2	9.5	9.9
Chelan	Lake Chelan	676.1	394.2	582.0	330.2	490.2
		YAKIN	<u>1A</u>			
Yakima	Keechelus Lake	157.8	144.3	153.2	107.6	140.5
Kachess .	Kachess Lake	239.0	230.7	232.6	209.8	229.4
Cle Elum	Lake Cle Elum	436.9	399.8	411.8	242.8	410.3
Bumping	Bumping Lake	33.7	19.9	24.8	19.9	33.1
Tieton	Rimrock Lake	198.0	164.1	194.1	94.9	184.3
		PUGET	SOUND			
Skagit	Ross Reservoir 2/	1202.9	927.6	1126.7	827.6	854.3
Skagit	Diablo Reservoir	90.6	84.0	82.6	84.1	84.2
kagit	Gorge Reservoir	9.8	8.1	8.0	8.6	. .

^{1/} Based on Active Storage

^{2/} Less than 15-year record in period 1948-62

^{* 15-}year average 1948-62

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SOIL MOISTURE - JUNE

Drainage Basin			Profile	(Inches)	: Soil Moi	sture Co	ontent
and	Number	Elev.		Total	: (Inches)	as of .	June 1
Station			Depth	Capacity :	1966	1965	1964
CRAB CREEK							
Creston-Kunz	18B1m	2440	48	13.6	8.5	9.0	10.5
Jack Woods	18B3m	2600	48	13.6	7.7	7.8	6.7
Krause	18B4m	2440	48	13.6	8.6	8.2	8.4
Sheffels	18B5m	2360	48	13.6	6.7	8.3	4.9
Wheatridge	18B6m	2200	48	13.6	6.2	6.5	6.8
OKANOGAN							
Trout Creek	3-M	3600	48	7.3	5.6*		7.1
YAKIMA							
Domery Flat	21B20m	2200	48	6.9	4.7*	4.2	
Lake Cle Elum	21B14M	2200	48	12.8	9.2*	9.5	9.2
WALLA WALLA							
Couse	17C3m	3650	48	11.1	7.1	10.5	8.2
Helmers	17C2M	4400	48	12.0	10.2	11.9	11.2
WENATCHEE							
Upper Wheeler	20B7M	4400	48	12.7	9.0	9.0	em 400

^{*} May 15th measurement

FALL SOIL MOISTURE

Drainage Basin			Profile	(Inches)	:	Soil Mois	sture Co	ntent
and	Number	Elev.		Total	:_	(Inches)	as of 0	ct. 1
Station			Depth	Capacity	:	1965	1964	1963
CRAB CREEK								
Creston-Kunz	18B1m	2440	48	13.6		4.9	5.4	5.1
Jack Woods	18B3m	2600	48	13.6		5.0	4.4	6.3
Krause	18B4m	2440	48	13.6		5.8	5.9	5.2
Sheffels	18B5m	2360	48	13.6		4.0	3.7	3.7
Wheatridge	18B6m	2200	48	13.6		4.2	4.1	4.5
OKANOGAN								
Trout Creek	3-M	3600	48	7.3		4.1	4.9	4.1
YAKIMA								
Domery Flat	21B20m	2200	48	6.9		1.9	4.4	
Lake Cle Elum	21B14M	2200	48	12.8		6.9	8.5	6.6
WALLA WALLA								
Couse	17C3m	3650	48	11.1		6.0	5.6	5.7
Helmers	17C2M	4400	48	12.0		6.2	6.0	5.8
WENATCHEE		,						
Upper Wheeler	20B7M	4400	48	12.7		6.2	5.3	m+ 400

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APPENDIX 1

SNOW DATA - MAY 15 & JUNE 1, 1966
(and Frevious Unreported Data)

					CHATT	A 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		
				1966	SNOW C	:Pas	ASUREMENT	
DRAINAGE BASIN			Date	Snow	Water	The second second second	er Conter	cord
and			of		Conten	THE COMPANY OF THE PARTY OF THE	CI COMECI	1948-62
SNOW COURSE	No.	Elev.		-	(In.)		1964	Avg.
<u>U</u> !	PPER	COLU	JMBI	A D	RAIN	AGE		
PEND OREILLE RIVER								
37 1	0 1 -	2050	E /17	1	0.4	1.7	4.2	0.8**
Nelson	Canada	3050	5/17	Т	0.4	1./	4.4	0,0
KETTLE RIVER								
Big White Mtn.	Canada	5500	4/28	40	16.0	New	Course	
			5/15	22	9.3			
			5/31	8	3.6			
Lower Trapping Cr.	Canada	3050	4/28	0	0.0	New	Course	
Marrata a Dana	Canada	4500	5/12	15	7.3	6.9	13.9	11.6**
Monashee Pass	Canada	4500	5/13 5/31	1	0.6	1.0		3.6**
Old Glory Mtn.	Canada	7000	5/16	64	28.2	25.7		28.9**
ord ordry nen.	Odiidda	7000	5/30	22	11.5	16.8	24.5	17.7%
Upper Trapping Cr.	Canada	4450	4/28	7	2.7	New	Course	
11 11 0			6/1	0	0.0	New	Course	
OKANOGAN RIVER								
n	C 1	(050	r /10	6.5	26.6	32.3	49.2	37.5**
Blackwall Mtn.	Canada	6250	5/13 5/31	51 34	26.6 18.8	30.8	44.1	
Enderby	Canada	6250	5/13	86	36.4	40.1	51.5	
inder by	Odnada	0230	5/31	73	38.0	39.4		op es
Hamilton Hill	Canada	4900	5/15	0	0.0	3.3	13.4	
			6/1	0	0.0	0.0	2.4	eo ==
Isontok Lake	Canada	5510	5/14		0.0	0.0		
Lost Horse Mtn.	Canada	6300		easure			13.9	
7 7 7	0 1	1070	5/30	0	0.0		5.4 Course	4.2**
Lower Esperon Cr.	Canada	4270	5/13	15	6.2 0.4	New	Course	
			5/27		0.0			
McCulloch	Canada	4200	5/15	Ö	0.0	0.5	1.8	0.8**
Middle Esperon Cr.		4580	4/29	15	6.8	New	Course	
			5/13	1	0.4			
			5/27	0	0.0			

^{**} Average for years of record

AND A STREET OF THE PARTY NAMED IN

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Professional Acts 16 Security of Association (Company) and Association (Company) and Company (Company) and Com			***************************************	SNOW	COVER M	EASUREM	ENT	
			#3 3	1966		:Pas	t Re	cord
DRAINAGE BASIN			Date	Snow	Water	: Water	Conten	t (In.)
and			of	Depth	Content	•		1948-62
SNOW COURSE	No.	Elev.	Survey	(In.)	(In.)	:1965	1964	Avg.
OKANOGAN RIVER (Co	nt.)							
Missezula Mtn.	Canada	5100	Not M	easured		0.0	6.3	2.1**
			Not M	easured		0.0	0.0	== 40
Mission Creek	Canada	4500	5/14	34	19.7	18.8	23.2	18.8**
			5/29	22	9.1	12.6	20.5	10.5**
Monashee Pass	Canada	4500	5/13	15	7.3	6.9	13.9	11.6%
			5/31	1	0.6	1.0	8.7	3.6**
Mt. Kobau	Canada	5950	5/1	23	8.5	New Co		
(4 to 10 cm m)			5/15	9	3.5			
			5/29	ó	0.0			
Silver Star Mtn.	Canada	6050	5/13	43	20.4	19.4	33.0	24.7**
STAVEL SEGLITER,	Junua	0030	5/31	20	10.2	11.0	25.0	14.6**
Trout Creek	Canada	4700	5/15	0	0.0	1.1	1.9	1.2**
Upper Esperon Cr.	Canada	4290	4/29	34	15.6	New Co		1.2
opper Esperon Cr.	Canada	4290				New Co	urse	
			5/13	14	6.4			
			5/27	1	0.4			
ENGTIN DIVIN								
ENTIAT RIVER								
B D.1	0.070.0	1000	F / 1 1			27 6		
Pope Ridge	20B20	4300	5/11	0	0.0	New Co		a
Pugh Ridge +	20A32a	6400	5/13	31	15.5		rial Ma	
Snow Brushy +	20A35a	3850	5/13	18	9.0		rial Ma	
Tommy Creek +	20B21a	5300	5/13	0	0.0	New Ae	rial Ma:	rker
WENATCHEE RIVER								
Lake Wenatchee	20B5	1970	4/19	7	3.0			
Blewitt Pass	20B2	4270	4/20	17	8.7			
Diewice Tass	2092	4270	5/9	0	0.0	2 6		
Stevens Pass	2121	4070				/.1 O	70 7	1.0 74
Stevens rass	21B1	4070	5/16	66	31.7	41.2	72.7	48.7*
YAKIMA RIVER			6/2	32	15.7	31.9	60.3	29.5*
	2100	2200	1.101	16	(1			
Big Boulder Creek	21B9	3200	4/21	16	6.1	ow ato	æ æ	ow at
Rumning Tales	21.00	2/50	5/3	0	0.0	0.0	/ 0	C Oslo
Bumping Lake	21C8	3450	5/14	0	0.0	0.0	4.2	5.0*
Cooper Pass	21B36		4/20	55	24.6	New C	ourse	
			4/29	38	17.0			
			5/10	7	3.2			

⁺ Snow water equivalent estimated from aerial stadia observation

^{*} Adjusted 1948-62 average

^{**} Average for years of record

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APPENDIX 3

		, d., q		December 1981	OW COVER	MEASU	REMENT	
				1966	Complete Com	ast	and the second company is the second	ord
DRAINAGE BASIN			Date	Snow			r Content	and the second s
and		90-11 at	of	Depth	Content		1061	1948-62
SNOW COURSE	No.	Elev.	Survey	(In.)	(in.)	:1965	1964	Avg.
YAKIMA RIVER (Cont.)	,							
	/_							
Hyak	21B34		4/20	25	10.8	New (Course	
			4/29	10	4.8			
Kachess Dam	21B38		4/21	0	0.0	New (Course	
			4/29	0	0.0			
Kachess Peninsula	21B37		4/20	31	12.2	New (Course	
			4/29	12	5.6			
Lake Cle Elum	21B14M	2200	5/9	0	0.0	0	0.0	∞ ∞
Fish Lake	21B4	3371	4/21	48	22.0			ac ca
			5/11	7	4.1	œ æ	es es	∞ ••
Morgan Creek	21B40		4/20	0	0.0	New (Course	
			4/29	0	0.0			
Noble Creek	21B35		4/20	29	11.4	New (Course	
			4/29	14	6.6			
Salmon La Sac	21B39		4/20	20	8.6	New (Course	
			4/29	0	0.0			
Snoqualmie Pass	21B33		4/20	80	38.1	New C	Course	
			4/28	75	35.4			
			5/9	49	25.4			
			5/20	38	17.0			
			5/31	18	10.0			
#Stampede Pass	21B10	3000	4/19	82	39.3	∞ œ	an an	es es
			5/9	42	26.8	00 GE	മാമാ	alle (38)
			5/19	36	19.0	38.2	63.1	35.1*
			5/30	9	5.3	21.8	61.9	17.3*
Tunnel Avenue	21B8	2450	4/9	48	19.7	-	e a	es es
			5/9	8	3.8	4.5	24.5	9.2*
A CONTRACTOR OF THE CONTRACTOR	155.55		5/20	0	0.0	0.0	13.9	
White Pass (E Side)	21C28	4500	5/13	28	14.1	17.6	28.4	25.4*
#01 .11 · · · ·	0170	0.40=	5/31	0	0.0	12.1	23.8	
#01allie Meadows	21B2	3625	4/19	96	43.8	co es	460 GD	est cas
			5/9	67	34.7	en en		at cas
			5/20	60	32.3	65 6 0	er eo	40 cm
			5/31	37	20.6	as ac		∞ ⇔

[#] Not directly on this drainage

^{*} Adjusted 1948-62 average

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				11.6			

			(C)	THE RESERVE OF THE PERSON NAMED IN COLUMN 2 IS NOT THE PERSON NAME	NOW COVE	R MEASUREMENT			
			***************************************	1966		:Past	ord		
DRAINAGE BASIN			Date	Snow	Water		Content		
and			of	-	Content			1948-62	
SNOW COURSE	No.	Elev.	Survey	(In.)	(In.)	:1965	1964	Avg.	
	LOWE	R C C	LUMB	ΙÂ	DRAI	NAGE			
COWLITZ RIVER									
White Pass (E Side)	21C28	4500	5/13	28	14.1	17.6	28.4	25.4*	
WILLER TADO (1 DIGO)	21020	1300	5/31	0	0.0	12.1	23.8	-50	
	ם זו מ	ਦ ਾ ਸ (SOUND	מ ת	AINA	C F			
	PUG	<u> </u>	OUND	D I	ALNA	G			
GREEN RIVER									
Stampede Pass	21B10	3000	4/19	82	39.3	00 es	00 00	ac as	
			5/9	42	26.8	.a. co	ar (2)		
			5/19	36	19.0	38.2	63.1	35.1*	
			5/30	9	5.3	21.8	61.9	17.3*	
CHARACTER DITTER			3,23						
SKYKOMISH RIVER									
#Stevens Pass	21B1	4070	5/16	66	31.7	41.2	72.7	47.8*	
			6/2	32	15.7	31.9	60.3	29.5*	
BAKER RIVER									
				- 1-					
Dock Butte	21A11A	3800	5/17	142	70.5	62.6	106.6	co co	
_			5/30	115	62.3		95.3	on cas	
Easy Pass	21A7A	5200	5/17	158	81.5	83.5	136.6	os ce	
		w 1 a a	5/30	133	75.8		118.7	cap valv	
Jasper Pass	21A6A	5400	5/17	176	93.1	84.3	118.2	am (SD	
		2600	•	152	86.7		109.0	* •	
Marten Lake	21A9A	3600	•		79.0			æ œ	
	01.4604	0100	•	130			104.8		
Rocky Creek	21A12A	2100	•	26	13.7		29.3	æ æ	
	014104	0100	•	0	0.0		5.4	as en	
Schreibers Meadow	21A10A	3400	5/17	125	63.0	54.8			
C TS TMI 1 C	014174	0000	5/30	98	51.8	0.0	76.0		
S.F. Thunder Creek	21A14A	2200	5/17	0	0.0	0.0		ee 00	
	01410	1.600	5/30			0.0		are one	
Sulphur Creek	21A13	1600	5/17	0	0.0	0.0	8.9	OP 000	
	014104	1500	5/30	0	0.0	0.0	0.0	a (3	
Watson Lakes	21A18A	4500		142	70.6		94.4		
			5/30	121	65.8	e	86.7	æ (2)	

Not directly on this drainageAdjusted 1948-62 average

A PER STORAGE							
							40.00
27.4.0							
	ALC: U	10058					
1741 70							
				1.53			
						115.7	
1/447 m	METATI						
inhand equilies							
			OHIC				
						V-10	
					20.00	17.84	

STATUTE OF LEASING

APPRENDIX 5

			SNOW COVER MEASUREMENT						
				1966		Pas	t Rec	ord	
DRAINAGE BASIN			Date	Snow	Water	: Wate	er Content	(In.)	
and			of	Depth	Content	:		1948-62	
SNOW COURSE	No.	Elev.	Survey	(In.)	(In.)	:1965	1964	Avg.	
SNOQUALMIE RIVER									
Bandera Air Strip	21B32		4/20	0	0.0	New	Course		
Olallie Meadows	21B2	3625	4/19	96	43.8	en up		on -	
			5/9	67	34.7	000 D00	and CO		
			5/20	60	32.3				
			5/31	37	20.6				
Snoqualmie Pass	21B33		4/20	80	38.1	New (Course		
1			4/28	75	35.4				
			5/9	49	25.4				
			5/20	38	17.0				
			5/31	18	10.0				
			•						

TIME SOUR	- 100				المثار	
gived the east		750				
	LEALS		251A 251A 251A 251V 111V			

Agencies Assisting with Snow Surveys

GOVERNMENT AGENCIES

Canada:

Department of Lands, Forests and Water Resources, Water Resources Service, British Columbia

States:

Washington State Department of Conservation
Washington State Department of Natural Resources

Federal:

Department of the Army
Corps of Engineers
U. S. Department of Agriculture
Forest Service

U. S. Department of Commerce Weather Bureau

U. S. Department of the Interior
Bonneville Power Administration
Bureau of Reclamation
Geological Survey
National Park Service

PUBLIC AND PRIVATE UTILITIES

Chelan County P.U.D.
Pacific Power and Light Company
Puget Sound Power and Light Company
Washington Water Power Company

OTHER PUBLIC AGENCIES

Okanogan Irrigation District
Wenatchee Heights Irrigation District

MUNICIPALITIES

City of Walla Walla City of Tacoma City of Seattle

Other organizations and individuals furnish valuable information for snow survey reports. Their cooperation is gratefully acknowledged.

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